UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/766,558	01/19/2001	Quaeed Motiwala	000103	1085
23696 7590 01/02/2009 QUALCOMM INCORPORATED			EXAMINER	
5775 MOREHO	OUSE DR.		WANG, TED M	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2611	
			NOTIFICATION DATE	DELIVERY MODE
			01/02/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

us-docketing@qualcomm.com kascanla@qualcomm.com nanm@qualcomm.com

		Application No.	Applicant(s)			
Office Action Summary		09/766,558	MOTIWALA ET AL.			
		Examiner	Art Unit			
		TED M. WANG	2611			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 20 Oc	etoher 2008				
· ·						
2a)⊠ 3)□	☐ This action is FINAL . 2b)☐ This action is non-final.					
ا ال	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under Z	x parte Quayle, 1955 C.D. 11, 45	3 O.G. 213.			
Dispositi	on of Claims					
4)	Claim(s) is/are pending in the application	n.				
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	∑ Claim(s) <u>23,24,26,27,34,35,37-39 and 44-48</u> is/are allowed.					
· · · · · · · · · · · · · · · · · · ·	i)⊠ Claim(s) <u>49</u> is/are rejected.					
7)						
8)□	Claim(s) are subject to restriction and/or	election requirement				
ا (۵	are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
-	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
		• , ,	* /			
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
The path of declaration is objected to by the Examiner. Note the attached Office Action of John F 10-132.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

Application/Control Number: 09/766,558 Page 2

Art Unit: 2611

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, filed on 10/20/2008, with respect to claim 49 has been considered but are moot in view of the new ground(s) of rejection.
- 2. Applicant's arguments, filed on 10/20/2008, with respect to the rejection(s) of claim(s) claims 23, 24, 26, 27, 34, 35, 37-39 and 44-48 under 35 USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claim 49 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
 - □ With regard claim 49, the limitation of "A computer-readable medium" as recited has not been taught in the specification at the time the application was filed.

Allowable Subject Matter

- 5. Claims 23, 24, 26, 27, 34, 35, 37-39 and 44-48 are allowed.
- 6. The following is an examiner's statement of reasons for allowance.

Application/Control Number: 09/766,558 Page 3

Art Unit: 2611

The prior art fails to teach an apparatus of Claims 23, 26, 34, 37, 44 and
 46 that specifically comprises the following:

-- The instant application is deemed to be directed to a non-obvious improvement over the admitted prior art of the instant application and the invention patented in Pat. No. WO 00/31889, US 5,818,882, US 6,381,234, 6,598,198 and US 6,754,290. The improvement comprises:

With regard claim 23, 34 and 44, "wherein the number of said plurality of portions of data symbols is based on a data rate of data symbols of said frame of data." as recited in combination with other limitation as claimed in Claims 23, 34 and 44, respectively.

With regard claim 26, 37 and 46, "wherein the number of said plurality of channel elements assigned to each frame of data is based on a data rate of the data symbols in each of said plurality of frames of data." as recited in combination with other limitation as claimed in Claims 26, 37 and 46, respectively.

Conclusion

- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted M. Wang whose telephone number is 571-272-3053. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ted M Wang/ Primary Examiner, Art Unit 2611 Application/Control Number: 09/766,558

Page 5

Art Unit: 2611